

Product datasheet for **RN216244**

Tpm1 (NM_001301342) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tpm1 (NM_001301342) Rat Untagged Clone
Tag: Tag Free
Symbol: Tpm1
Synonyms: Alpha-tm; Tma2; Tmsa
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN216244 representing NM_001301342
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGACGCCATCAAGAAGAAGATGCAGATGCTGAAGCTCGACAAAGAGAACGCCTTGGATCGAGCAGAGC
AGCGGAGGCTGACAAGAAGCTGCGGAAGACCGGAGCAAGCAGCTCGAGGAGGACATCTCAGCAAAAGA
GAAGCTGCTGCGGGCGTGGAGGACGAGCGGGACCGGGTCTGGAGGAGCTGCACAAGGCAGAGGACAGC
CTGCTGGCTGCCGACGAGACCGCCCAAGGCTGAAGCTGACGTAGCATCTCTGAACAGACGCATCCAGC
TGGTTGAGGAGGATTGGATCGCGCTCAGGAGCGTCTGGCCACAGCTCTACAGAAGCTGGAGGAGGCTGA
GAAGGCTGCAGATGAGAGTGAGAGAGGCATGAAAGTCATTGAAAGCCGAGCCAAAAAGATGAAGAAAAG
ATGGAGATTCAGGAGATCCAGCTGAAAGAGGCCAAGCACATTGCTGAAGATGCTGACCGAAAAGTATGAAG
AGGTGGCCCGTAAGCTGGTCATCATCGAGAGCGATCTGGAGCGTGGGAGGAGAGGGCTGAGCTCTCGGA
AGGCAATGTGCCGAGCTTGAAGAAGAGTTGAAAACGGTGACGAACAACCTGAAGTCACTGGAGGCTCAG
GCTGAGAAGTACTCTCAGAAAAGAAGACAAGTATGAAGAGGAGATCAAGTTCTCTCTGACAAGCTGAAGG
AGGCTGAGACCCGGGCTGAGTTTGCAGAGAGATCAGTAACCAAATGGAGAAAAGCATTGATGACTTAGA
AGACGAGCTGTATGCTCAGAAACTGAAGTACAAGGCCATCAGCGAGGAGCTGGACCACGCTCTCAACGAT
ATGACTTCCATATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001301342
Insert Size: 855 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001301342.1</u> , <u>NP_001288271.1</u>
RefSeq Size:	1251 bp
RefSeq ORF:	855 bp
Locus ID:	24851
Cytogenetics:	8q24
Gene Summary:	<p>This gene is a member of the tropomyosin family and encodes a protein that heterodimerizes with a beta subunit, binding actin in both muscle and nonmuscle cells. In both smooth and striated muscle cells, it plays a role in calcium dependent-regulation of muscle contraction. In nonmuscle cells, it stabilizes cytoskeleton actin filaments. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (Tpm1.2, also known as variant 11) has multiple differences in the coding region, compared to variant 1, resulting in a shorter protein (isoform Tpm1.2st). The resulting protein (isoform Tpm1.2st) is shorter and has a distinct C-terminus compared to isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>